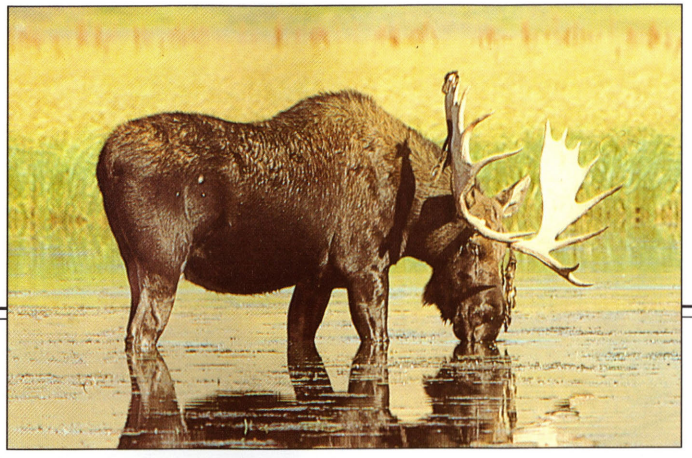
Schmidt & Bender
Schmidt & Bender
1½-10x
Suhl/Tal Wetzlar
West Germany
Schmidt & Bender
1½-6x
Suhl/Tal Wetzlar
West Germany



What is the difference between a good scope and an excellent

Specialists in rifle scopes

Since they were founded in 1957, Schmidt & Bender have produced quality rifle scopes. It is this specialization and experience that benefit the discriminating hunter and rifleman who can rest assured that Schmidt & Bender know precisely how telescopic sights must be made.
From the beginning, the demands of the hunter and the experience of the qualified gunsmith have been taken into account in the improvement and development of Schmidt & Bender scopes.
Top quality is the only yardstick for assessing Schmidt & Bender scopes and our high percentage of exports is proof of the popularity of our products worldwide.

What is a quality scope?

- ☐ Brightness and resolution
- ☐ Color fidelity and contrast
- ☐ Field of view

are quality features you can actually "see" when comparing different makes of telescopic sight of equal magnification. Schmidt & Bender scopes invite this comparison.

You can recognize differences in the quality of the anti-reflection coatings on lenses by trying to use the eyepiece or objective lens as a mirror.

The poorer the mirror image, the better the anti-reflection coating.

Talk to your gunsmith who will certainly put you in the picture. The name "Schmidt & Bender" represents all the requirements which you seek to cope with rough hunting conditions:

- ☐ Recoil-proof, centred reticles
- ☐ Dust and moisture-proof assembly
- ☐ Precise click adjustments

At first glance, one scope may appear to be as good as another. Even the optical and technical data tell us little. After reading the following pages, you will really know what makes the difference in quality.

scope?

Quality control

Numerous inspections during each stage of manufacture and assembly ensure the consistent quality of Schmidt & Bender telescopic sights. In order to guarantee that the scopes withstand the most severe hunting conditions, we subject them to tough tests:

- ☐ Vibration tests exceeding the shocks from the most powerful cartridges.
- ☐ Environmental test
- ☐ Rain test

Each scope must be absolutely tight when subjected to an excess pressure of 200 millibar. In order to prevent fogging, all telescopic sights are sealed with high-precision seals resistant to oil, light and ageing.

So Schmidt & Bender scopes cannot fog because they are tight and, in addition, filled with dry, clean nitrogen.
Each Schmidt & Bender scope comes with a 30-year Guarantee.*

* We also ask that you study our detailed Guarantee Brochure.

Lenses and anti-reflection coatings

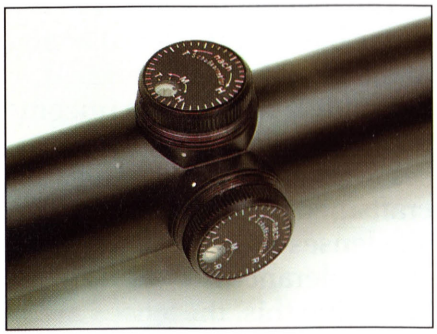
The making of a quality scope begins with the selection of the glass for the lenses. At Schmidt & Bender, we uncompromisingly buy the best raw lenses available. Highly skilled craftsmen polish this raw glass into lenses maintaining very close tolerances.
Following this, the lenses are coated with multiple layers of an anti-reflective coating especially formulated for maximum light transmission of over 90 %. This makes Schmidt & Bender scopes brighter and gives you a great advantage when the light conditions are poor.

Variable power scopes: as versatile as hunting

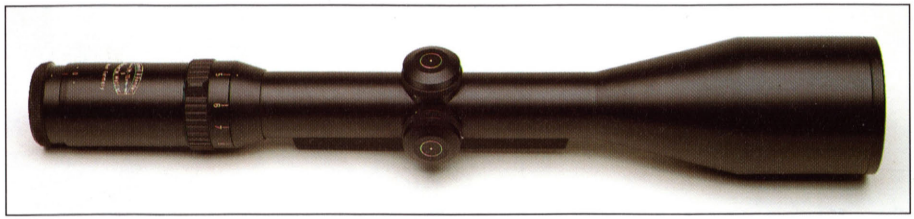
A variable Schmidt & Bender scope is the optimum for hunting all over the world, under all kinds of conditions.

Reticle control indicator

Schmidt & Bender reticles are always optically centred. On other makes of scope you are unable to tell whether the windage or elevation adjustment is actually centred. Not so on a Schmidt & Bender



scope. A unique Reticle Control Indicator tells you exactly how much adjustment you have left which is invaluable when mounting your scope. When the black dot lines up with the letter "M", you are in the middle of the adjustment. The black dot moves as you adjust the knob, indicating precisely how much adjustability



remains. This way you can mark on the turret caps which adjustment is required for the desired shooting distance. The correct setting can be determined approximately from ballistic tables or established individually using a few test shots. Anyone who would like to know more about this subject can order an information sheet from Schmidt & Bender.

Variable power scopes

Low magnification – wide field of view for wooded areas and close distances.
High magnification – for long range shooting in open country with optimum detail.
If you need both of these requirements, a variable power scope will be the answer.
A handy, knurled rubber ring will always allow you to change the magnification noiselessly for the respective hunting conditions.

Models 1 ¼-4x20, 1 ½-6x42, 4-12x42 and 2 ½-10x56 are pictured on the opposite page. They are available in aluminium with mounting rails or in a steel version without mounting rails. Models 1 ½-6x and 4-12x are also available without mounting rails on the objective section.

Schmidt & Bender
Wetzlar
Weel Germany

The hunter and the gunsmith remain flexible

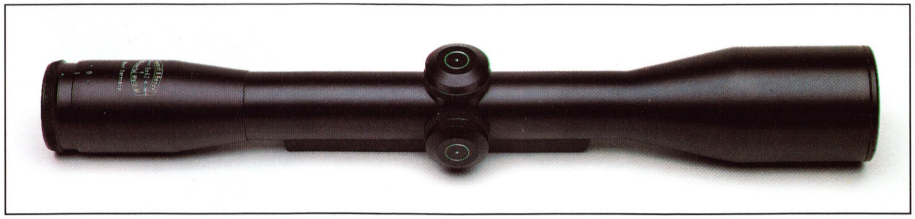
A Schmidt & Bender scope does not need any maintenance and requires only minimal care. The excellent optics are protected by a rugged tube with the most durable surface finish.

Mounting

Schmidt & Bender offers you and your gunsmith options which allow the choice of the proper mount: scopes are available made of aluminium with mounting rails or in a steel version without mounting rails. In addition, models 6x42, 1 ½-6x42 and 4-12x42 are available with middle mounting rails, i.e. without the front mounting rails.

Fixed power scopes

If your hunting conditions do not vary a great deal, you should choose a Schmidt & Bender scope with fixed magnification. These scopes will provide the optimum results for their intended purpose. Models 1 ½x15, 4x36, 6x42, 10x42 and 8x56, shown on the opposite page, have a rugged steel design (without mounting rails) and a durable finish which has stood the test of time.
These models are also available in aluminium with mounting rail. On request, we can supply all steel scopes of fixed power with conventional polishing and bluing so the mount rings can be solded on.
The following technical information shows just how gunsmith-friendly and therefore how easy Schmidt & Bender scopes are on your wallet:
In some scopes, you will find two grooves at the transition cone between the middle tube and the eyepiece which permit the rear mounting foot to slide on from this side although the mounting rail is then very close to the cone. This is required particularly in scopes with a long mounting rail.
You can find further details in the overview on page 10.



Schmidt & Bender
8x56
Weat Germany
Schmidt & Bender
10x42
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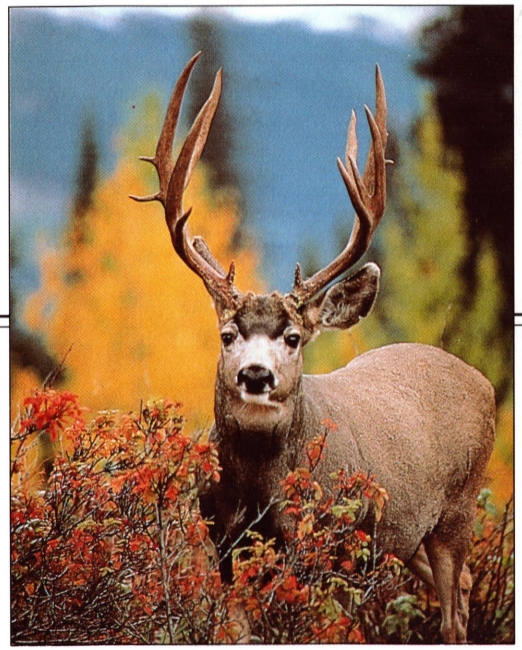
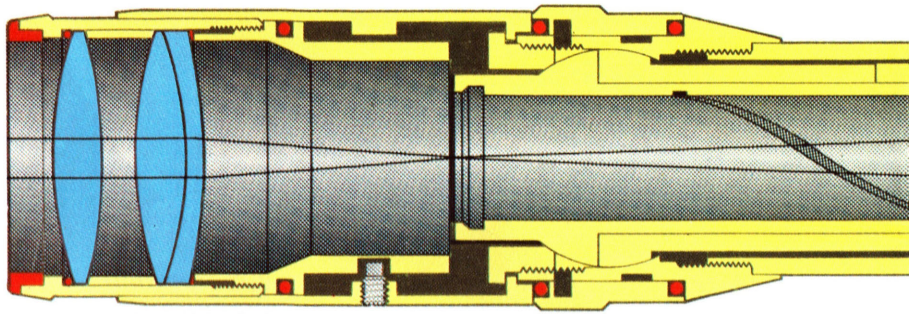
Schmidt & Bender
8x42
Weat Germany
Schmidt & Bender
4x36
Weat Germany
Schmidt & Bender
1Wx15
Weat Germany

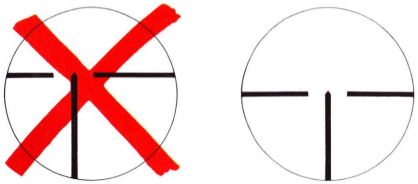
A sectional view of our telescopic sight: see how many details are important

The optics and mechanics of a top-class scope demand the highest precision during design, production and assembly.





Centred reticle

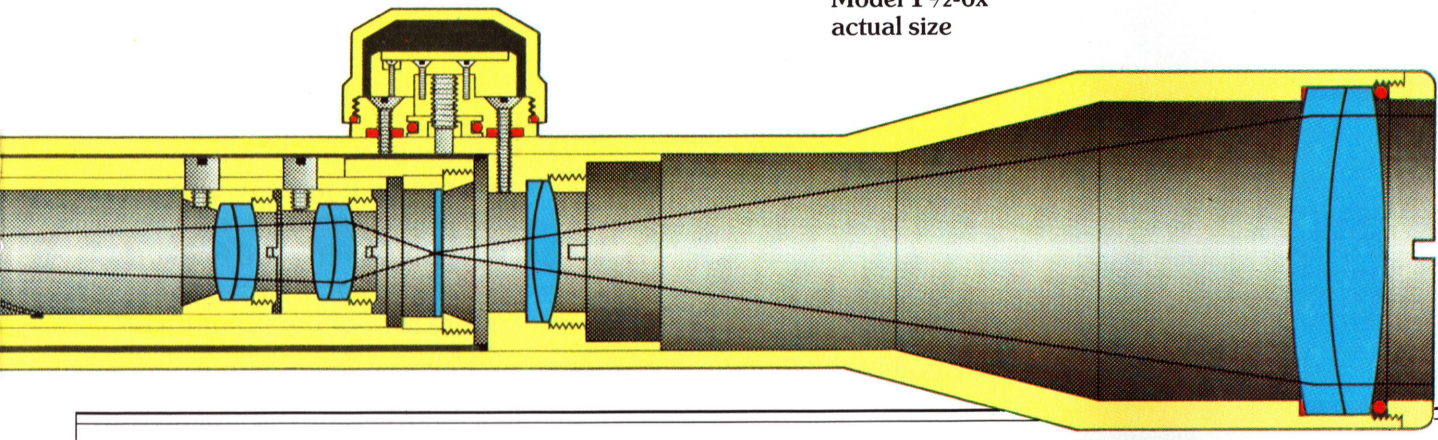


All Schmidt & Bender telescopic sights have centred reticles. Optically, the reticle always appears in the middle, thus letting you utilize the full field of view. The easy-to-operate adjustment knobs have click stops which allow you precise and repeatable adjustment. On a six-power scope, for example, each click represents a movement of .3 inch at 100 yards. On Schmidt & Bender variable scopes, the reticle is located in the focal plane of the objective lens. Therefore, the reticle always remains in the same location when changing magnification and a movement of the point of impact is not possible. The reticle will change in size in accordance with the magnification. On target, however, the reticle will remain constant in size. As you gain experience, this feature will help you judge the distance to the target. Thus, if the tapered bar covers, for example, the head of a stag at 4x magnification, it will also only cover the head at 12x magnification.

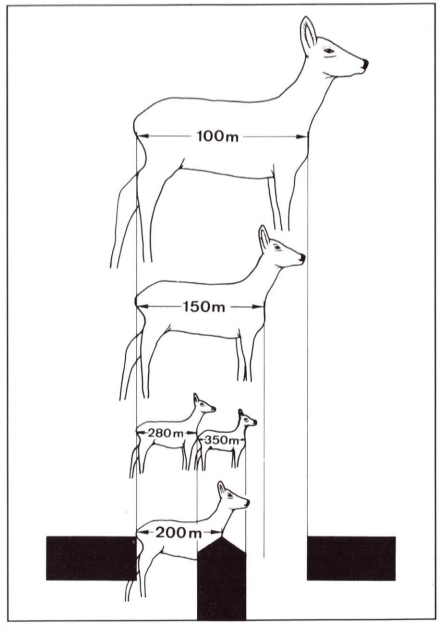
Which reticle for what purpose?

When buying a new scope, the choice of reticle must be primarily guided by the intended use. Familiarity and personal experience are other important considerations.
Schmidt & Bender offer you seven different reticles from which to choose, and all have proved useful. European hunters often use reticle No. 1 (normal reticle) and No. 4. The distance between the horizontal bars is about 25 inches at a distance of 100 yards. This can be an aid to judging distance as, for example, a buck standing side on at a distance of

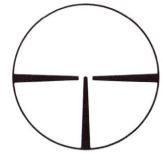
Model 1 ½-6x
actual size

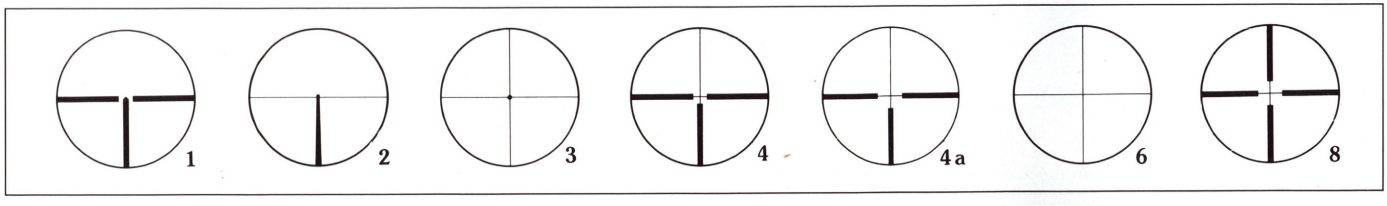


100 yards fits in this scale. In reticle No. 8, the distance between the bars is twice as great. In principle, reticles with thick bars (Nos. 1, 4 and 8) are well-suited to use in poor light conditions, while reticles with thin hairs (e.g. No. 3) are better suited to smoothly aimed shots in good shooting light.



If possible and practical, we will also manufacture variations and special reticles to order. The normal reticle No. 1 in variable scopes has tapered bars which cover less of the target at the higher magnifications. The tip of the vertical bar meets the upper edge of the horizontal bars. An advantage which many hunters appreciate in Schmidt & Bender scopes.





Type No.	Model	Magnification	Field of view at 100 m/yards		Clear aperture of objective lens	Exit pupil	Twilight factor	Eye relief		Diameter of tube	Outside diameter of objective	Length		Weight	Change of Impact point at 100 m/yards per click	
			m	feet	mm	mm		mm	inch	mm	mm	mm	inch	g	mm	inch
Fixed Power Steel without rails																
934-4	1 1/2x15	1 1/2x	30	90	15	10	4,5	80	3 1/4	26*	26*	255	10	334	35	1 1/4
931-4	4x36	4x	10	30	36	9	12	80	3 1/4	26*	40	290	11	400	10	1/3
932-4	6x42	6x	7	21	42	7	15,8	80	3 1/4	26*	48	337	13	490	8,5	1/3
933-4	8x56	8x	5,5	16,5	56	7	21,1	80	3 1/4	26*	62	377	14	620	7	1/4
936-4	10x42	10x	4	10,5	42	4,2	22,4	80	3 1/4	26*	48	330	13	508	9	1/3
Light metal with rails										* 26 mm/ 1 inch						
951-2	4x36	4x	10	30	36	9	12	80	3 1/4	rails		285	11	388	10	1/3
*952-2	6x42	6x	7	21	42	7	15,8	80	3 1/4	rails		332	13	478	8,5	1/3
953-2	8x56	8x	5,5	16,5	56	7	21,1	80	3 1/4	rails	62	381	15	586	7	1/4
Variable Power Steel without rails																
946-1	1 1/4-4x20	1 1/4-4x	32-10	96-16	12,7-20	14-5	3,7-8,9	80	3 1/4	30	30	265	10	440	17	2/3
*941-1	1 1/2-6x42	1 1/2-6x	20-6,5	60-19,5	21-42	14-7	4,5-15,8	80	3 1/4	30	48	310	12	560	14	1/2
942-1	2 1/2-10x56	2 1/2-10x	12,5-4	37,5-12	33,3-56	13,3-5,6	7,5-23,6	80	3 1/4	30	62	372	14	700	8	1/3
*948-1	4-12x42	4-12x	10,5-3,5	34,5-11,5	40-42	10,5-3,5	13-22,5	80	3 1/4	30	48	337	13	640	9	1/3
Light metal with rails																
946-2	1 1/4-4x20	1 1/4-4x	32-10	96-16	12,7-20	14-5	3,7-8,9	80	3 1/4	rails		265	10	400	17	2/3
*941-2	1 1/2-6x42	1 1/2-6x	20-6,5	60-19,5	21-42	14-7	4,5-15,8	80	3 1/4	rails		310	12	480	14	1/2
942-2	2 1/2-10x56	2 1/2-10x	12,5-4	37,5-12	33,3-56	13,3-5,6	7,5-23,6	80	3 1/4	rails	62	372	14	640	8	1/3
*948-2	4-12x42	4-12x	10,5-3,5	34,5-11,5	40-42	10-3,5	13-22,5	80	3 1/4	rails		337	13	550	9	1/3

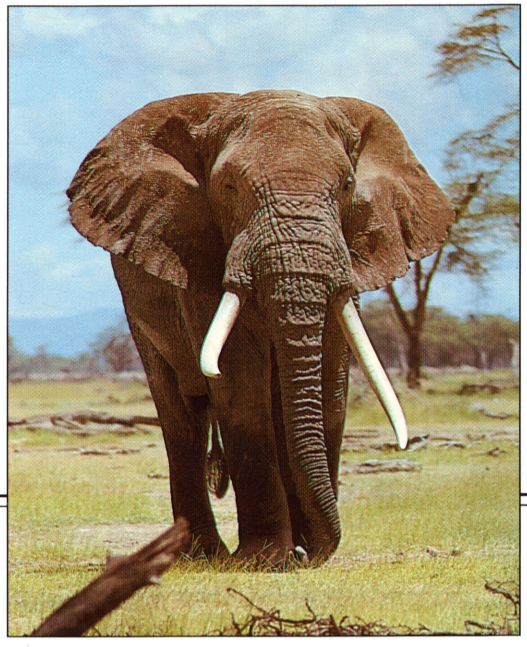
*Also available without front rail.

Conversion factors: 10 mm = 0.39 inch. – 1 m = 3.28 ft. – 100 m = 109 yards – 100 g = 3.52 oz.

The meaning of optical data

Optical data say nothing about the quality of a scope. In the same way as the caliber and magazine capacity do not relate to the accuracy of a rifle, so too will optical data not necessarily equate to quality. This is illustrated by the "twilight factor": the twilight efficiency is defined as the square root of the magnification times effective lens diameter ($Z = \sqrt{V \times D}$).
In a 4x36 scope, the calculation is as follows:
$Z = \sqrt{4 \times 36} = \sqrt{144} = 12$.
This calculated value is always the same when the magnification is 4x and the lens diameter is 36 mm, regardless of the quality level, the manufacturer or the price of the scope. The figures on the chart say nothing about quality.

All our scopes are supplied with clear view lens caps at no extra charge.



Quality means: Paying attention to details

Schmidt & Bender quality.
A standard of excellence appreciated by Hunters who demand the best.

Surface finishes

A five-step process assures the absolute corrosion resistance of all Schmidt & Bender scopes with steel tubes:

- ☐ Grinding and polishing
- ☐ Copperplating
- ☐ Nickelplating
- ☐ Black chromeplating
- ☐ Baked enamelling

Thus, the Schmidt & Bender scopes with steel tubes are the most rugged and, at the same time, the most durable in adverse weather conditions. The final coat of satin enamel reduces reflections which could spook the game.

When buying your scope, please pay attention to the important details!

With a Schmidt & Bender sight, you are not just buying a scope. No matter whether it is a question of objectively explaining things to novice hunters or protecting your eyes when shooting, Schmidt & Bender pays attention to the important details – and will continue to do so.

4-12x42: A new model from the telescopic sight specialist

The 4-12x42 model is a special sight in many respects. It satisfies not only the hunters and shooters needs, both for hunting and competition, it is also recommended for people who appreciate an attractive design as well as a good telescopic sight.

The 4-12x42 model lightens the gunsmith's work and saves money.

Anyone wishing to use the large magnification to exploit the maximum permissible limit for target practice, while at the same time having the option of switching to a lower magnification, for example when hunting young wild boar, has made the ideal choice with this sight. It is also eminently suitable for huntsmen who would like a large magnification but want to save every ounce of weight.

The 4-12x42 is designed to harmonise. With low-profile and smoothly contoured rifles it creates an impression of gun and scope as one unit. Huntsmen who often have to shoot at small, remote targets, for instance in mountainous terrain or when hunting vermin, will be particularly successful with the 4-12x42 because the high magnification ensures a sure shot.

While using the 4-12x42 hunters remain flexible.

The scope is available in three versions so that you can select freely from the mounting possibilities offered. You can buy it with a steel tube without mounting rail – it then has the now famous Schmidt & Bender surface finish which ensures an absolute corrosion-resistant finish in five stages: grinding and polishing, copperplating, nickelplating, black chrome-plating, baked enameling. Naturally, the scope is also available as an aluminium tube with mounting rail on the middle tube and lens tube.

The aluminum version is also available without the front mounting rail, i.e. only with the middle mounting rail.

The rubberized setting rings improve the safe handling of the telescopic sights.

Above: The soft rubber edge on the eyepiece is there for "emergencies". However, always ensure there is a sufficient gap between your eye and the eyepiece on firing.

Practical users appreciate the rubberized magnification setting ring on variable scopes from Schmidt & Bender. The handy rubberized knurled wheel is fitted with a small, but nevertheless easily feelable cam for better handling.

Service to the Schmidt & Bender user

An essential consideration in:
Design
Manufacture
Overhaul and repairs
Information

Guarantee leaflet

An interesting brochure is enclosed with each Schmidt & Bender scope which provides a series of practical handling tips and confirms the 30-year guarantee on the scope.

The brochure cannot be lost due to the special fastening and the owner can easily file it with his other documents using the practical ring eyelets. In the interest of quality, we pay attention to even the smallest of details.

Customer service

We know how frustrating it can be to be without your favorite scope when you need it most.
We are always ready to service your scope in the speediest and most cost effective way, and take as much pride in servicing as we do in manufacture. We will send you a prompt quotation. You can count on us!

In this picture, the beauty and harmony radiated by Schmidt & Bender scopes on the gun becomes clear. Schmidt & Bender scopes are preferred by people who love detail and value the skilful combination of function and design.

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Schmidt u. Bender
West Germany

Printed in Germany

The 3-12x50 from Schmidt & Bender

Technical and optical specifications of the new scope

		without rail	with rail
Stock No.		944-1	944-2
Model		3-12x50	3-12x50
Magnification		3-12x	3-12x
Field of view	100 m	11,1-4,2 m	11,1-4,2 m
	100 yards	33.3-12.6 feet	33.3-12.6
Objective diameter	in mm	45,3-50 mm	45,3-50 mm
Exit pupil	in mm	15,1-4,2 mm	15,1-4,2 mm
Twilight Factor		11,7-24,5	11,7-24,5
Eye Relief	in mm	80 mm	80 mm
	in inch	3.25"	3.25"
Center Tube diameter	in mm	30 mm	Rail
Objective diameter	in mm	57 mm	57 mm
Length	in mm	345 mm	345 mm
	in inch	13.5"	13.5"
Weight, approx.	grams	710 gram	650 gram
	in lbs	1 lb. 9 oz.	1 lb. 7 oz.
Click Value at 100 m	in mm	7 mm	7 mm
at 100 yards	in inch	.280"	.280"

We reserve the right to change optical and mechanical specifications.

3-12x50: Variable, good in twilight, slim in design.

Technical and optical specifications on opposite side.

The 3-12x50 is a successful compromise between the twilight scopes with large objectives and the smaller scopes for normal light conditions.

This is a scope with three to twelve power magnification and a 50 mm objective. It fills the gap between our other variable scopes and is ideal for the hunter who needs a greater range of magnification, but does not like the appearance of the scopes with 56 mm objective, while still giving him excellent performance in twilight.

Schmidt & Bender

NEW!

No. 9

A unique Reticle which helps you to concentrate on your point of aim much like a peep sight would.

Now available in all models

Schmidt u. Bender
West Germany

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Schmidt & Bender

June 1994

SNIPER SCOPES

Schmidt & Bender scopes are know for their quality optically and mechanically. Light transmission and resolution are outstanding, precise click adjustments make sighting in easy and the strong all steel tubes with black chrome finish are very durable.

The 1 1/2-6x42 Sniper Scope is available now. All other models will be available in the next few months. Unfortunately, literature for these scopes is not ready at this time. Please let us know which models you are interested in and we will send you information as soon as it becomes available.

1. **Sniper 1 1/2-6x42** This scope has been available for many years and is appreciated by the shooters who own one. Up to now it was programmed for .308 Federal 150gr. It has now been changed to accommodate Federal Gold Medal .308 Cal. 168gr. BCHT Match Ammunition. New Components are available to owners of our 1 1/2-6x42 Sniper Scope.This scope is available with the S1 reticle.
2. **Sniper 3-12x50** This scope is outstanding in poor light conditions. It is available with all hunting reticles, reticle Nr. 9 and reticle Nr. S2. It comes equipped with two neutral bullet drop compensators and a sun shade. All technial data from hunting model apply.
3. **Sniper 6x42** This scope comes with a 1" tube, sun shade and neutral bullet drop compensator and is available with all hunting reticles, reticle Nr. 9 and Nr. S1. All technical data from hunting model apply.
4. **Sniper 10x42** 10X Magnification, otherwise exactly like 6x42.
5. **Sniper 4x25** With 30mm tube for split rings. Available with hunting reticle Nr. 1, Nr. 9 and Nr. S1.
6. **Sniper 4x25** For Stanag Mount. Otherwise same as above 4x25.

Bullet Drop Compensator programmed for .308 Cal. Ammo. 168gr. Bullet is pictured on the other side.

Neutral Bullet Drop Compensator is available for all other models. You use the graduations and numbers to develop your own program.

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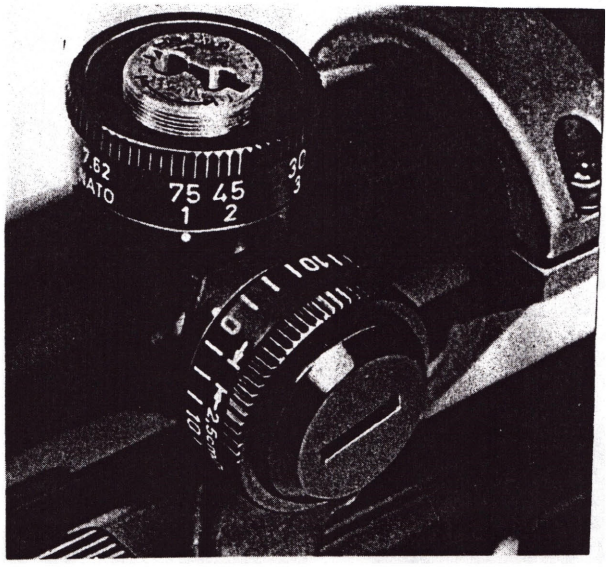

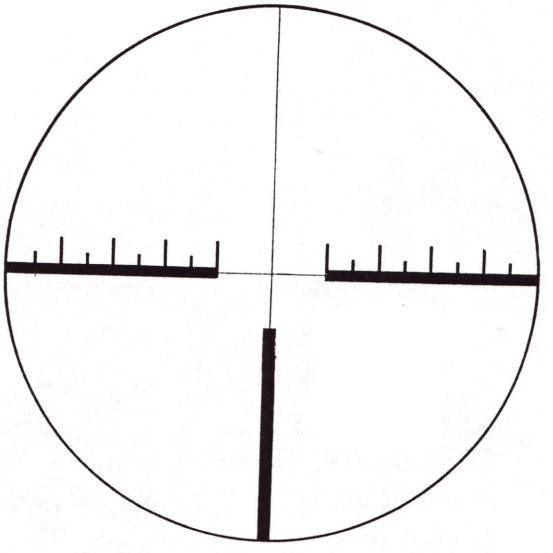

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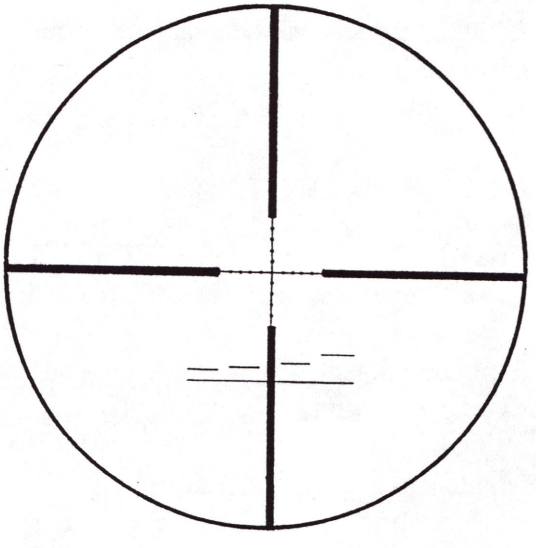
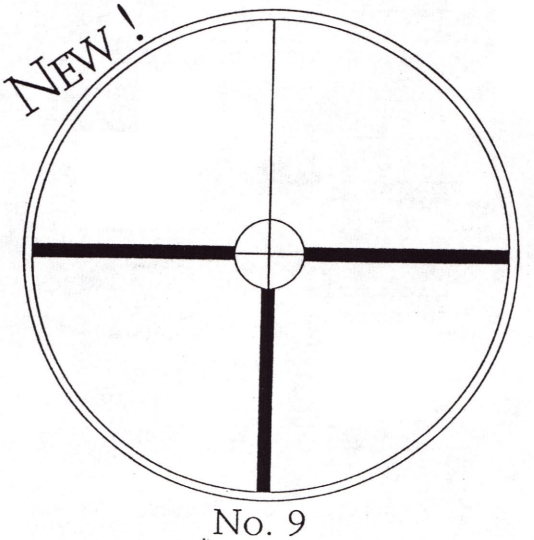


S2



No. 9

Please send information on the following models:

1. Sniper 1 1/2-6x42 ___
2. Sniper 3-12x50 ___
3. Sniper 6x42 ___
4. Sniper 10x42 ___
5. Sniper 4x25 ___
6. Sniper 4x25 for Stanag Mount ___

Name:_____

Address:_____

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Schmidt & Bender

Traditional European 25x50 Spotting Scope

Outstanding Optical Qualities
Compact, Light Weight
Well Balanced When Extended

FEATURES

Weight	28oz.
Length closed	10½''
Length open	31''
Magnification	25x
Objective Lens	50mm
Exit Pupil	2mm
Twilight Factor	35.4

Field of View, 1000 yds.	28m
Shortest Focusing Distance	10m

Material Best quality lenses & coatings, Anodized Aluminum, Leather covered, Built-in Sun Shade
Flip Open Objective Lens Cap

Suggested Retail Price $595.00

Schmidt u.Bender
West Germany

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